

ABSTRACT

The present invention provides a design of an apparatus that controllably generates plurality of fountains or fog. The apparatus comprises of a plurality of concave focused transducers that are 5 immersed in a fluid with the focus located at the fluid surface. The apparatus is further comprises of a function generator that generates cyclic signals in the Megahertz range that drives the transducers at one or more of their resonance frequencies. The apparatus comprises of a sound emitting device that include a computer controlled generator, music device or synthesizer that is used to modulate the drive signal to the transducers. The apparatus is further comprised of 10 an amplifier that drives the transducers to produce high-intensity ultrasonic waves. The apparatus comprises of a light source that illuminates the produced fountains or fog. The full embodiment of the invention consists of drive electronics that generate cyclic signals that are modulated by sound of music or other rhythmic signals. These signals drive a plurality of transducers to produce fountains or fog that are harmoniously illuminated by a light source to 15 provide audiovisual effects. One modality of the invention consists of a laser source that raster scan the fog or fountains to generate three-dimensional display. The object of this invention is to provide for the design of a source of electrically controlled fountain and fog. It is further the object of this invention to provide for the design of a device that synchronously varies the level of appearance of the fountains and fog with the rhythm of a played sound of music or 20 synthesized signals. It is further the objective of this invention to provide for a design of a device that harmoniously presents light interaction with the produced fountains and fog.